#### => d 12 1-4

L2 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2004 ACS on STN

RN 640286-04-0 REGISTRY

CN Pyrido[2,3-b]acridine-5,12-dione, 11-[2-(dimethylamino)ethenyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C20 H15 N3 O2

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

## \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2004 ACS on STN

RN 460041-69-4 REGISTRY

CN Acetic acid, trifluoro-, 1-[(1E)-2-(5,12-dihydro-5,12-dioxopyrido[2,3-b]acridin-11-yl)ethenyl]-2,2-dimethylhydrazide (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C22 H15 F3 N4 O3

SR CA

LC STN Files: CA, CAPLUS

Double bond geometry as shown.

# \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2004 ACS on STN

RN 143370-22-3 REGISTRY

CN Pyrido[2,3-b]acridine-5,12-dione, 11-[2-(dimethylamino)ethenyl]-9-methoxy-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C21 H17 N3 O3

SR CA

LC STN Files: BEILSTEIN\*, CA, CAPLUS

(\*File contains numerically searchable property data)

## \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2004 ACS on STN

RN 127477-94-5 REGISTRY

CN Pyrido[2,3-b]acridine-5,12-dione, 11-[(1E)-2-(dimethylamino)ethenyl](9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Pyrido[2,3-b]acridine-5,12-dione, 11-[2-(dimethylamino)ethenyl]-, (E)-OTHER NAMES:

CN NSC 680733

FS STEREOSEARCH

MF C20 H15 N3 O2

SR CA

LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER

Double bond geometry as shown.

### \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION 162.92 163.55

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=> s 12

L3 5 L2

=> d 13 1-5 ibib abs hitstr

L3 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:555116 CAPLUS

DOCUMENT NUMBER: 140:70343

TITLE: Antiparasitic activity of marine pyridoacridone

alkaloids related to the ascididemins

AUTHOR(S): Copp, Brent R.; Kayser, Oliver; Brun, Reto; Kiderlen,

Albrecht F.

CORPORATE SOURCE: Department of Chemistry, University of Auckland,

Auckland, N. Z.

SOURCE: Planta Medica (2003), 69(6), 527-531

CODEN: PLMEAA; ISSN: 0032-0943

PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal LANGUAGE: English

AB A series of pyridoacridone alkaloids, including the marine alkaloid ascididemin were tested in vitro for antiparasitic activity against P. falciparum (K1, NF54), L. donovani, T. cruzi, T. b. rhodesiense and 2 mammalian cell lines (L6, RAW 264.7). Most compds. showed high antiplasmodial activity, moderate antileishmanial activity against both extra- and intracellular forms, and significant trypanocidal effects against T. cruzi and T. b. brucei. However, when tested against mammalian cell lines, most of the compds. were also toxic for macrophage-like RAW 264.7 cells and skeletal muscle myoblast L6 cells. Correlations between mol. structures and antiparasitic activity are discussed in detail. Specific compds. are illustrated with emphasis on their potential as new antiparasitic drug leads.

IT 640286-04-0

RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological

activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (antiparasitic activity of marine pyridoacridone alkaloids related to ascididemins)

640286-04-0 CAPLUS RN

Pyrido[2,3-b]acridine-5,12-dione, 11-[2-(dimethylamino)ethenyl]- (9CI) CN (CA INDEX NAME)

 $Me_2N-CH=CH$ 

REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 2 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:390982 CAPLUS

DOCUMENT NUMBER:

137:247842

TITLE:

Intramolecular Michael-type addition of azadienes to

1,4-naphthoguinones instead of Aza-Diels-Alder

cycloaddition: a synthesis of ascididemin

AUTHOR(S):

Cuerva, Juan M.; Cardenas, Diego J.; Echavarren,

Antonio M.

CORPORATE SOURCE:

Departamento de Quimica Organica, Universidad Autonoma

de Madrid, Cantoblanco, Madrid, 28049, Spain

SOURCE:

Journal of the Chemical Society, Perkin Transactions 1

(2002), (11), 1360-1365

CODEN: JCSPCE; ISSN: 1472-7781

PUBLISHER:

Royal Society of Chemistry

DOCUMENT TYPE:

Journal

LANGUAGE:

English

 $\alpha, \beta$ -Unsatd. hydrazones tethered by an amino group to 1,4-naphthoguinone or quinoline-5,8-dione do not react by intramol. aza-Diels-Alder cycloaddn. Instead, these substrates cyclize to form benzo[b]acridine-6,11-dione or pyrido[2,3-b]acridine-5,12-dione derivs., resp. This route leads to a highly concise synthesis of the pyridoacridine alkaloid ascididemin.

TT 460041-69-4P

> RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intramol. Michael-type addition of azadienes to 1,4-naphthoquinones followed by cyclization for the preparation of the pyridoacridine alkaloid ascididemin)

460041-69-4 CAPLUS RN

Acetic acid, trifluoro-, 1-[(1E)-2-(5,12-dihydro-5,12-dioxopyrido[2,3b]acridin-11-yl)ethenyl]-2,2-dimethylhydrazide (9CI) (CA INDEX NAME)

Double bond geometry as shown.

REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:97447 CAPLUS

DOCUMENT NUMBER: 132:265338

TITLE: Structural studies of cytotoxic marine alkaloids:

synthesis of novel ring-E analogues of ascididemin and

their in vitro and in vivo biological evaluation

AUTHOR(S): Lindsay, Brent S.; Christiansen, Holly C.; Copp, Brent

R.

CORPORATE SOURCE: Department of Chemistry, University of Auckland,

Auckland, N. Z.

SOURCE: Tetrahedron (2000), 56(3), 497-505

CODEN: TETRAB; ISSN: 0040-4020

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 132:265338

GI

AB The cytotoxic marine alkaloid ascididemin and various pyridine ring-E analogs have been synthesized in an attempt to determine the pharmaceutical utility and structure-activity requirements for the parent alkaloid. All compds. synthesized were evaluated in a wide range of biol. screens for selective cytotoxicity, antiviral, antifungal and antimicrobial properties. Many analogs exhibited selective cytotoxicity to human solid tumor cell-lines in vitro, with I also exhibiting moderate antitumor activity in in vivo xenograft assays.

IT 127477-94-5P, NSC 680733

RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent) (structural studies of cytotoxic marine alkaloids: synthesis of novel

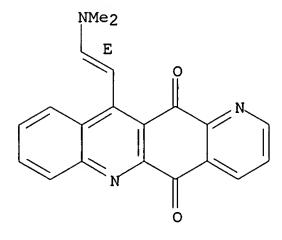
ring-E analogs of ascididemin and in vitro and in vivo biol.

evaluation)

RN 127477-94-5 CAPLUS

CN Pyrido[2,3-b]acridine-5,12-dione, 11-[(1E)-2-(dimethylamino)ethenyl]-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

Ι

ACCESSION NUMBER: 1993:7232 CAPLUS

DOCUMENT NUMBER: 118:7232

TITLE: Polycyclic aromatic alkaloids. 8. The structure of

neocalliactine acetate - proof by total synthesis

AUTHOR(S): Bracher, Franz

CORPORATE SOURCE: Inst. Pharm. Chem., Philipps-Univ., Marburg, Germany

SOURCE: Liebigs Annalen der Chemie (1992), (11), 1205-7

CODEN: LACHDL; ISSN: 0170-2041

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 118:7232

GT

AB The pentacyclic compound I is prepared in six steps by starting from 5,8-quinolinedione. Its spectral data are in accordance with those of neocalliactine acetate, a derivative of the marine alkaloid calliactine. This represents the first definite confirmation of the structure of neocalliactine acetate.

IT 143370-22-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and intramol. cyclization of)

RN 143370-22-3 CAPLUS

CN Pyrido[2,3-b]acridine-5,12-dione, 11-[2-(dimethylamino)ethenyl]-9-methoxy-(9CI) (CA INDEX NAME)

L3 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1990:406660 CAPLUS

DOCUMENT NUMBER: 113:6660

TITLE: Polycyclic aromatic alkaloids. 4. Total synthesis of

the pentacyclic alkaloid ascididemin

AUTHOR(S): Bracher, Franz

CORPORATE SOURCE: Inst. Pharm. Chem., Philipps-Univ., Marburg, D-3550,

Fed. Rep. Ger.

SOURCE: Heterocycles (1989), 29(11), 2093-5

CODEN: HTCYAM; ISSN: 0385-5414

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 113:6660

Ι

GΙ

AB The antileukemic alkaloid ascididemin (I) was prepared from quinoline-5,8-quinone by oxidative amination with o-aminoacetophenone, followed by acid catalyzed cyclization and subsequent one pot annuation of ring E.

IT 127477-94-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and intramol. cyclization of)

RN 127477-94-5 CAPLUS

CN Pyrido[2,3-b]acridine-5,12-dione, 11-[(1E)-2-(dimethylamino)ethenyl](9CI) (CA INDEX NAME)

Double bond geometry as shown.